

COMPLETE LISTING OF ALL CLAIMS, WITH MARKINGS AND STATUS IDENTIFIERS

(Currently amended claims showing deletions by strikethrough or [[double brackets]] and additions by underlining)

1 - 10 (canceled)

11 (currently amended): A compound according to claim 10 wherein said compound is human PTH analogue of the formula, [Cha^{7,11}, des-Met⁸, Nle¹⁸, Tyr³⁴]hPTH(1-34)NH₂ (SEQ ID NO:16), which selectively binds to the PTH2 receptor, or a pharmaceutically acceptable salt thereof.

12 - 51 (canceled)

52 (new): A human PTH analogue which selectively binds to the PTH2 receptor, wherein said analogue is selected from the group consisting of

[Cha^{7,11}, des-Met⁸, Nle¹⁸, Tyr³⁴]hPTH(1-34)NH₂ (SEQ ID NO:16),
[Cha^{7,11}, D-Nle⁸, des-Met¹⁸, Tyr³⁴]hPTH(1-34)NH₂, and
[Cha^{7,11}, D-Nle⁸, Nle¹⁸, Tyr³⁴]hPTH(1-34)NH₂,

which selectively binds to the PTH2 receptor, or a pharmaceutically acceptable salt thereof.

53 (new): A pharmaceutical composition comprising an analogue according to claim 52 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

54 (new): A method of treating a medical disorder that results from altered or excessive action of the PTH2 receptor, which comprises administering to a patient in need thereof an effective amount of an analogue according to claim 52, sufficient to inhibit the activation of the PTH2 receptor of said patient.

55 (new): A method according to claim 54 wherein said medical disorder is abnormal CNS functions, abnormal pancreatic

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functions, divergence from normal mineral metabolism and homeostasis, male infertility, abnormal blood pressure or a hypothalamic disease.